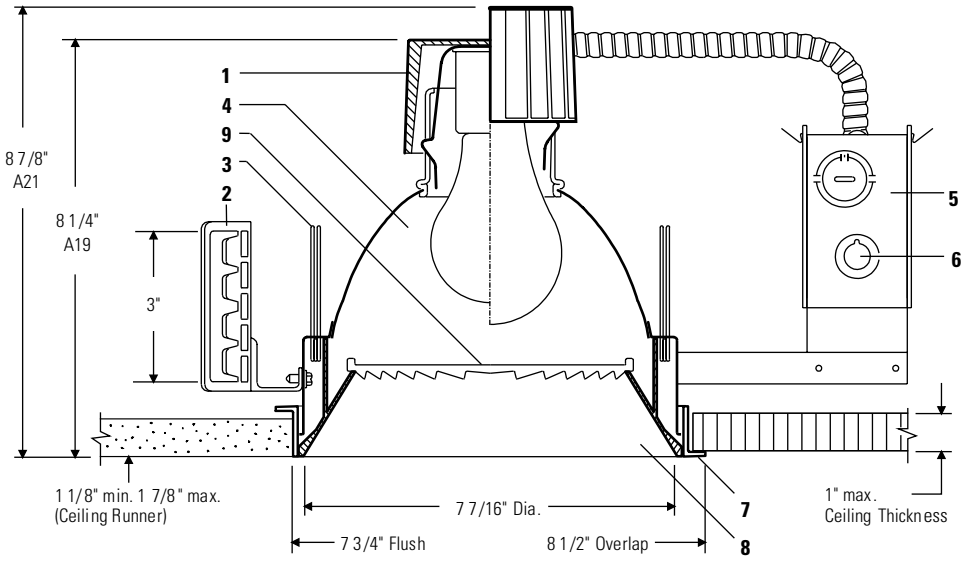
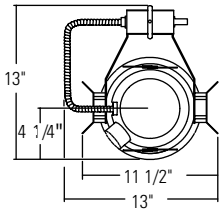
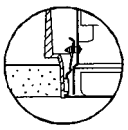
Calculite® Incandescent Lensed Downlight **7790QD**

7 3/8" Aperture A19 / A21 / MB19 Fresnel Lenslite

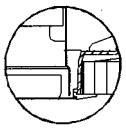




Top View



Flush Trim



White Trim Ring

Ceiling Cutout: 7 3/4" Dia.

Catalog Number	Lamp
7790QD	**A19** 100W max. **MB19** 100W max. **A21** 150W max.

Features

1. **Socket Cup:** Die-cast aluminum cup effectively dissipates heat and assures lamps maintain proper optical alignment to reflector. Snaps onto reflector neck for easy tool-less installation. Contains medium base porcelain socket, nickel plated screw shell wired with No 18 SF1 leads to J-Box.
2. **Mounting Brackets:** Adjusts vertically from inside of fixture. Durable 16 ga. steel construction. Use with standard 3/4" or 1/2" lathing channels (by others), 1/2" EMT pipe (by others), or Lightolier accessory mounting bars.
3. **Retaining Springs:** Torsiontite springs secure bezel reflector housing.
4. **Reflector:** Specular Alzak® aluminum, 16 ga., reflector housing can be detached from inside of fixture for access to splices after installation.
5. **Junction Box:** 14 ga. steel, 4" x 3" x 2" box allows inspection from below.
6. **Thermal Protector:** Meets NEC and UL requirements. Insulation must be kept 3" away from fixture sides and wiring compartments and must not be placed above fixture in a manner which will entrap heat.
7. **Trim Frame:** Die-cast aluminum suitable for dry or plaster ceilings. Flanges for dry ceilings, reversible flangeless trim for use in plaster ceilings. Matte white baked enamel finish.
8. **Bezel:** Die-cast aluminum bezel forms deep attractive conical aperture. Matte white baked enamel finish. Includes black polyurethane foam gasket to provide effective light and dust shield.
9. **Lens:** 6" diameter gray color louver risers. Regressed 1 1/2" from ceiling line by bezel.

Options & Accessories

18" Mounting Bars	**1950** (set of 2)
27" Mounting Bars	**1951** (set of 2)
T-Bar Anchor Clips	**1956** (set of 4, for 1950 & 1951 bars)
Wood Joist Mtg. Bars	**7994** (set of 2)
Step Down Transformer	**7997** (see 7997 specification sheet)
Chicago Air Plenum	Consult Factory

Electrical

UL Listed for maximum of 8 No. 12, 75°C through branch circuit supply conductors, or 60°C supply conductors for end of run.

Labels

UL Listed for wet locations, I.B.E.W.

Alzak® is a registered trademark of ALCOA.

Job Information **Type:**

Job Name:

Cat. No.:

Lamp(s):

Notes:

Lightolier a Genlyte Thomas Company www.lightolier.com
631 Airport Road, Fall River, MA 02720 • (508) 679-8131 • Fax (508) 674-4710
We reserve the right to change details of design, materials and finish.
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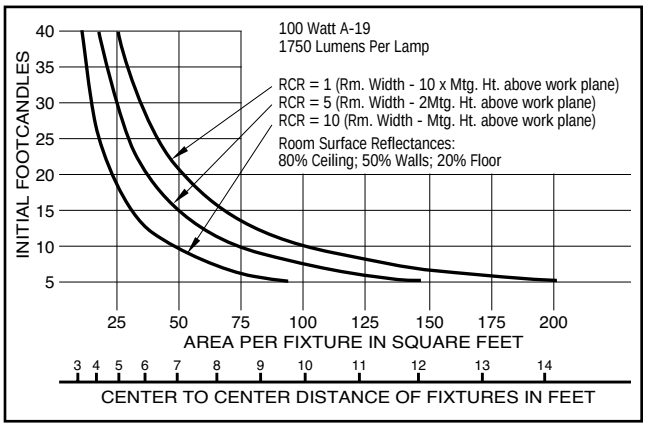
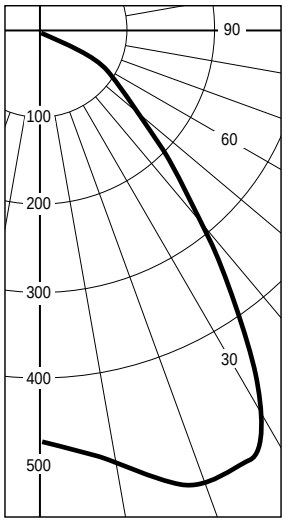
LIGHTOLIER®


100 Watt A-19
1750 Lumens Per Lamp
RCR = 1 (Rm. Width - 10 x Mtg. Ht. above work plane)
RCR = 5 (Rm. Width - 2Mtg. Ht. above work plane)
RCR = 10 (Rm. Width - Mtg. Ht. above work plane)
Room Surface Reflectances:
80% Ceiling; 50% Walls; 20% Floor
INITIAL FOOTCANDLES
40
35
30
25
20
15
10
5
25 50 75 100 125 150 175 200
AREA PER FIXTURE IN SQUARE FEET
3 4 5 6 7 8 9 10 11 12 13 14
CENTER TO CENTER DISTANCE OF FIXTURES IN FEET

Use quick calculator chart to determine spacing of luminaires for desired level of illumination.
Conversion Factors: 150W A21, F.C. X 1.4

Spacing Ratio = 1.3

100W A19



Candlepower Summary

DEG	CP	ZONAL FLUX
0	484	
5	492	47
15	551	156
25	558	258
35	389	244
45	181	140
55	71.0	64
65	25.4	25
75	2.0	2
85	0	0
90		

ZONE	LUMENS	LAMP
0-30	461	26.5
0-40	705	40.5
0-60	909	52.0
0-90	936	53.5

E.T.L, Inc. report No. 390909
Date: 06-24-64

Efficiency: 52.0%

COEFFICIENTS OF UTILIZATION

% EFFECTIVE CEILING CAVITY REFLECTANCE

	80			70			50			30			10			0
	% WALL REFLECTANCE															
	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0
1	.59	.57	.56	.58	.56	.55	.55	.54	.53	.53	.52	.52	.51	.51	.50	.49
2	.54	.52	.50	.53	.51	.49	.51	.49	.48	.50	.48	.47	.48	.47	.46	.45
3	.50	.47	.44	.49	.46	.44	.47	.45	.43	.46	.44	.42	.45	.43	.42	.41
4	.45	.42	.40	.45	.42	.39	.44	.41	.39	.43	.40	.38	.41	.40	.38	.37
5	.42	.38	.35	.41	.38	.35	.40	.37	.35	.39	.37	.35	.38	.36	.34	.33
6	.38	.35	.32	.38	.34	.32	.37	.34	.32	.36	.34	.31	036	.33	.31	30
7	.35	.32	.29	.35	.31	.29	.34	.31	.29	.33	.31	.29	.33	.30	.28	.28
8	.32	.28	.26	.32	.28	.26	.31	.28	.26	.31	.28	.26	.30	.27	.25	.25
9	.29	.26	.23	.29	.25	.23	.28	.25	.23	.28	.25	.23	.28	.25	.22	.22
10	.27	.23	.21	.27	.23	.21	.26	.23	.21	.26	.23	.21	.25	.22	.20	.19

ROOM CAVITY RATIO

20% FLOOR CAVITY REFLECTANCE

Conversion Factor: For 150W A21 units, multiply C.U.s by 0.9

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